

MD 189 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND CROSSWALK STRIPING IMPROVEMENTS AT THE INTERSECTION OF MD 189 (FALLS ROAD) AND DUNSTER ROAD/FALLS CHAPEL WAY, IN MONTGOMERY COUNTY, MARYLAND.

NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A FIVE PHASE SEMI-TRAFFIC ACTUATED MODE WITH THE MD 189 APPROACHES RUNNING CONCURRENTLY AND THE DUNSTER ROAD/FALLS CHAPEL WAY APPROACHES RUNNING CONCURRENTLY. EXCLUSIVE PERMISSIVE LEFT TURN PHASING WILL BE PROVIDED FOR THE SOUTHBOUND MD 189 APPROACH. PEDESTRIAN PHASING WILL BE PROVIDED ACROSS THE NORTH, SOUTH AND EAST LEGS OF THE INTERSECTION.

CONTROLLER REQUIREMENTS

THE EXISTING FULLY-TRAFFIC ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER HOUSED IN A NEMA SIZE "6" GROUND MOUNTED CABINET WILL BE UTILIZED.

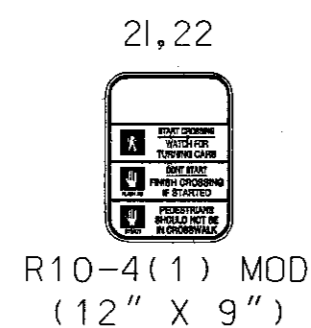
GENERAL NOTES:

ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.

THE CONTRACTOR SHALL CONTACT MR. KEITH LORD, CHIEF, SIGNAL TECHNICAL CENTER, AT 301-279-1291 SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING WORK.

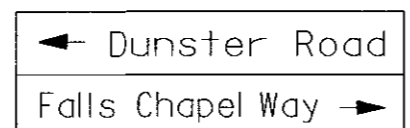
CONTACT THE MONTGOMERY COUNTY TMC AT 240-777-2100 TO MARK EXISTING UNDERGROUND TRAFFIC SIGNAL EQUIPMENT SEVENTY-TWO (72) HOURS PRIOR TO DIGGING.

PROPOSED SIGNS

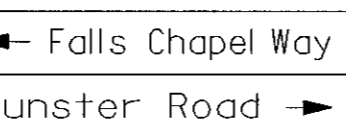


R10-12
(30" X 36")

EXISTING SIGNS



D3-2 (MOD)
VARIABLE X 32"
(BACK TO BACK)

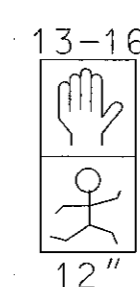
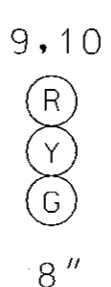
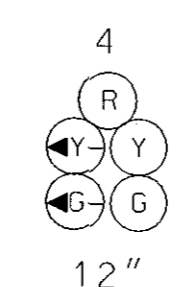
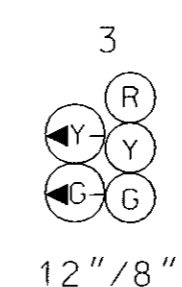
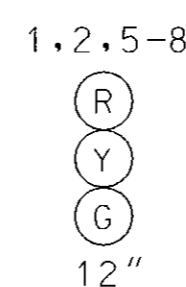


R3-5L
30" X 36"

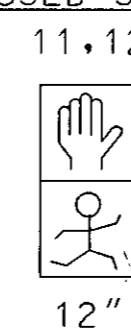


S1-1 (FYG)
(36" X 36")
M6-2R
(21" X 15")

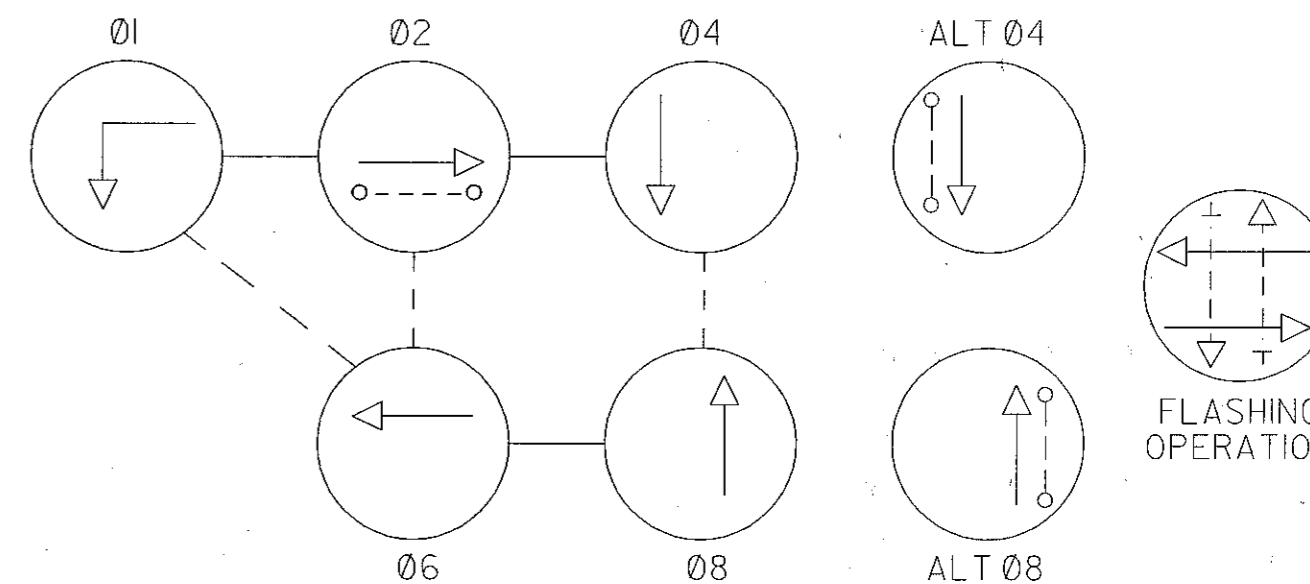
EXISTING SIGNALS



PROPOSED SIGNALS



NEMA PHASING



PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

QUANTITY	DESCRIPTION
1.5 S.F.	SHEET ALUMINUM SIGN -2 EACH R10-4(1) MOD (12" X 9")
1 EA	NEMA LOAD SWITCH

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5004	250 L.F.	12 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
8010	4 EA	F & I 12 INCH PEDESTRIAN SIGNAL HEAD
8076	2 EA	INSTALL SHEET ALUMINUM SIGNS
8085	250 L.F.	F & I ELECTRICAL CABLE - 3 CONDUCTOR (NO 14 A.W.G.)

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY DESCRIPTION

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR

CONSTRUCTION DETAILS

- INSTALL PEDESTRIAN SIGNAL HEAD AND SIGN ON EXISTING POLE
- USE EXISTING HANDHOLE
- USE EXISTING SPANWIRE
- USE EXISTING TRAFFIC SIGNAL CONTROLLER
- USE EXISTING CONDUIT
- INSTALL 12" HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK)

PROJECT CONTACTS

MR. LEE STARKLOFF
ASST. DIST. ENGR. TRAFFIC
301-513-7318

MR. RALEIGH MEDLEY
ASST. DIST. ENGR. MAINTENANCE
301-513-7304

MR. AUGIE REBISH
DISTRICT ENGINEER UTILITIES
301-513-7350

MR. KEITH LORD (MCDPWT)
CHIEF, SIGNAL TECHNICAL CENTER
301-279-1291

CONTACTS FOR THE OFFICE OF TRAFFIC

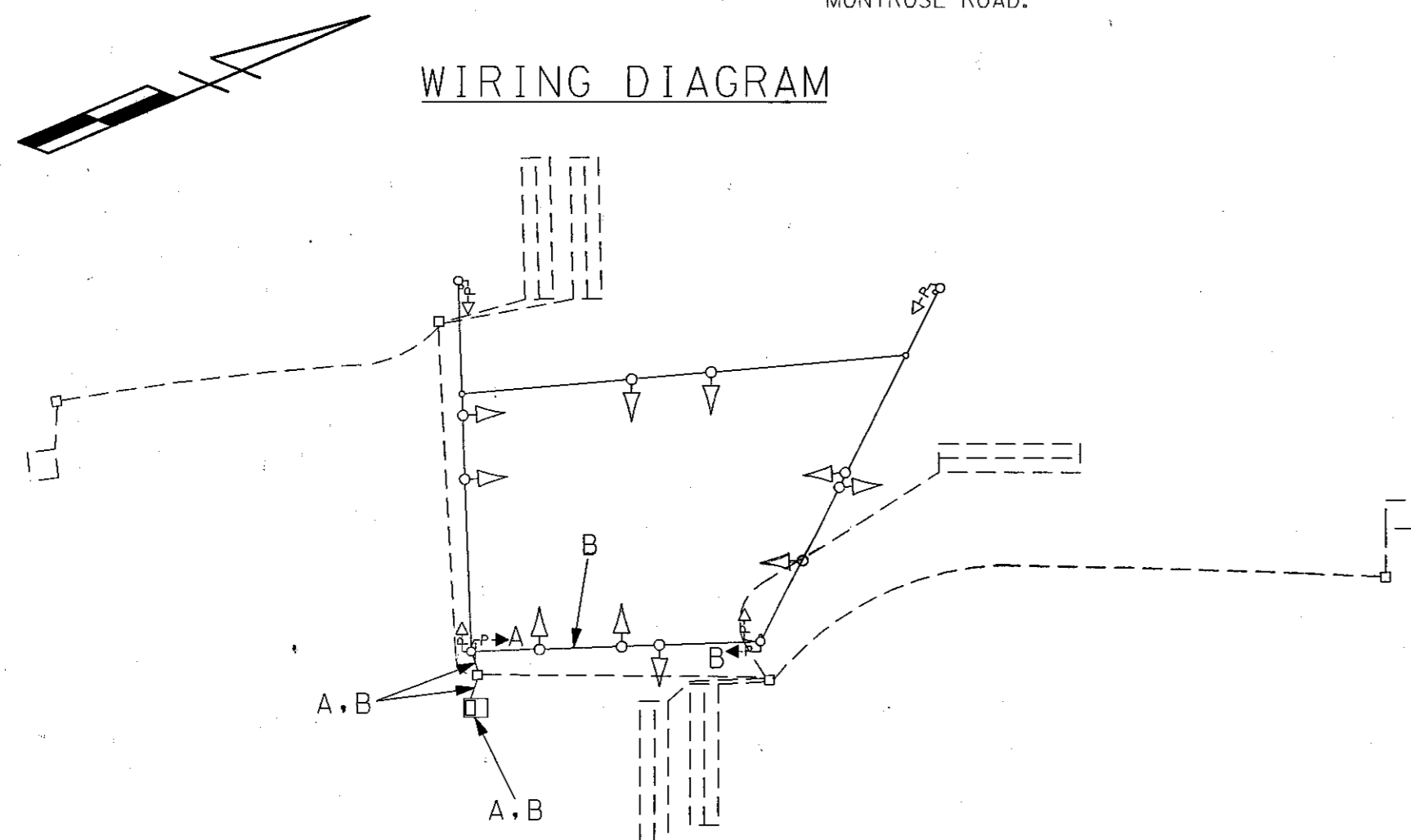
MR. RICHARD DAFF
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676

MS. DARLENE EIDE
SUPPLY OFFICER SIGNAL WAREHOUSE
410-787-7666

WIRING DIAGRAM



WIRING KEY

A, B } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	— A —
ELECTRIC CABLE	— E —
TELEPHONE CABLE	— T —
GAS MAIN	— G —
SEWER MAIN	— S —
WATER MAIN	— W —
CABLE TV	— C —



RUMMEL, KLEPPER & KAHL, LLP

CONSULTING ENGINEERS

81 MOSHER STREET
BALTIMORE, MARYLAND 21217
TELE: 410/728-2900 FAX: 410/728-3160

REVISIONS	APPROVALS
1. INSTALL PEDESTRIAN SIGNAL HEADS ON NORTH AND EAST LEGS SHA: XX1065285 JH: [Signature] B 2-2-99 ASBUILT SHA NO. MD 5715176	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION CHIEF TRAFFIC ENGINEERING DESIGN DIVISION DIRECTOR, TRAFFIC & SAFETY
2. REPLACE LOOPS FOR RESURFACING PROJECT SHA NO. MD 5715176 TMZ	



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION
MD 189 (FALLS RD) AND DUNSTER ROAD
/ FALLS CHAPEL WAY

DRAWN BY: STS	F.A.P. NO.	TS NO.
CHECKED BY: STS	S.H.A. NO.	TS-3879C
SCALE: 1" = 20'	COUNTY: MONTGOMERY	T.I.M.S. NO.
DATE:	LOG MILE: 15018905.80	F064X

SHEET NO.

OF